

## REFERENCES IN ENVIRONMENT

Country	Characteristics	General contractor	Services
Switzerland Geneva	-	Services Industriels de Genève (SIG) - Usine des Cheneviers	Market survey Technical appraisal Feasibility study
Switzerland Geneva	Dimensions: DN400 and DN500.	Département de l'Aménagement de l'Équipement et du Logement (DAEL) - Service des Routes Nationales	Feasibility study Project management Mechanical engineering Electrical engineering Tender and evaluation Site supervision Start-up and commissioning
United Kingdom Rugby	Technical assistance for improvement of the operation of a new cement kiln.	RMC Group Services Limited	Assistance in operation Technical expertise
Switzerland Bulle	Steam production and distribution for pharmaceutical industry. Saturated steam production: 5 t/h	UCB Farchim SA	Project management Basic engineering Mechanical engineering Tender and evaluation
Switzerland Bullet	-	Municipality of Bullet	Technical expertise
Switzerland Geneva	-	Services Industriels de Genève (SIG) - Usine des Cheneviers	Project management Civil engineering Tender and evaluation Site supervision
Switzerland Geneva	District heating plant using incinerated household waste from Cheneviers Heat production: 66 MWth	CADIOM SA represented by SIG (Services Industriels de Genève).	Feasibility study Project management Basic engineering Civil engineering Mechanical engineering Electrical engineering Tender and evaluation Site supervision Start-up and commissioning Assistance in operation
Switzerland Geneva	Waste management - "Ecology at work"- Workgroup for health care waste	Department of Interior, Agriculture and Environment (DIAE) - State of Geneva	Project management Technical expertise
France Bellegarde-sur-Valserine	Dioxin and furan treatment at SIDEFAGE Waste-to-Energy plant Waste incineration: 120'000 t/y	Syndicat mixte de Gestion des Déchets du Faucigny Genevois (SIDEFAGE)	Project management Tender and evaluation Site supervision Start-up and commissioning
Switzerland Geneva	Replacement of storage tanks for combustible liquid residues at the hazardous waste treatment centre of the Cheneviers Waste-to-Energy plant Storage capacity: 3 x 200m <sup>3</sup>	Department of Interior, Agriculture and Environment (DIAE) - State of Geneva	Project management Basic engineering Civil engineering Mechanical engineering Tender and evaluation Site supervision Start-up and commissioning

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Switzerland Geneva	Feasibility study for the valorization of the thermal energy produced in Cheneviers for CADIOM district heating. Increase of the available thermal power from 43 to 70 MW.	Department of Interior, Agriculture and Environment (DIAE) - State of Geneva	Feasibility study Technical expertise
Switzerland Geneva	-	Department of Interior, Agriculture and Environment (DIAE) - State of Geneva	Feasibility study
Switzerland Geneva	-	Department of Interior, Agriculture and Environment (DIAE) - State of Geneva	Project management Basic engineering Tender and evaluation Site supervision Start-up and commissioning
Switzerland Geneva	Hazardous waste incineration capacity: 12'000 tons/year.	Department of Interior, Agriculture and Environment (DIAE) - State of Geneva	Technical expertise
Switzerland Geneva	-	Department of Interior, Agriculture and Environment (DIAE) - State of Geneva	Tender and evaluation Site supervision Start-up and commissioning
Switzerland Geneva	Feasibility study for the replacement of storage tanks for combustible liquid residues at the Cheneviers plant.	Department of Interior, Agriculture and Environment (DIAE) - State of Geneva	Feasibility study
Switzerland Geneva	-	Department of Interior, Agriculture and Environment (DIAE) - State of Geneva	Project management Basic engineering Tender and evaluation Site supervision Start-up and commissioning
Switzerland Geneva	-	Department of Interior, Agriculture and Environment (DIAE) - State of Geneva	Project management Tender and evaluation Site supervision Start-up and commissioning
Senegal Kirene	Electrical power plant for the new Kirene cement plant. Electricity production: 2x7 MW.	Ciment du Sahel	Project management Tender and evaluation Site supervision Start-up and commissioning
Azerbaijan Karadag	Assessment of operations and environmental impact as a basis of decision for financial investment into a rehabilitation programme. Cement production: 1'200'000 t/y.	International Finance Corporation, Washington, D.C.	Technical expertise

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<b>Switzerland</b> Geneva	Change of a mechanical air extraction system by a natural extraction system	Department of Interior, Agriculture and Environment (DIAE) - State of Geneva	Project management Basic engineering Civil engineering Mechanical engineering Electrical engineering Tender and evaluation Site supervision Start-up and commissioning
<b>Switzerland</b> Geneva	Adaptation to the Swiss atmospheric emission standards of Cheneviers Waste-to-Energy plant Waste incineration capacity: 1x17 t/h and 2x20 t/h.	Department of Interior, Agriculture and Environment (DIAE) - State of Geneva	Start-up and commissioning Assistance in operation Technical expertise
<b>Switzerland</b> Geneva	Adaptation to the Swiss atmospheric emission standards of Cheneviers Waste-to-Energy plant Waste incineration: 350'000 t/y	Department of Interior, Agriculture and Environment (DIAE) - State of Geneva	Feasibility study Project management Basic engineering Civil engineering Mechanical engineering Electrical engineering Tender and evaluation Site supervision Start-up and commissioning Assistance in operation
<b>Switzerland</b> Geneva	Storage capacity: 100 m <sup>3</sup> .	Department of Interior, Agriculture and Environment (DIAE) - State of Geneva	Project management Basic engineering Civil engineering Mechanical engineering Electrical engineering Tender and evaluation Site supervision Start-up and commissioning
<b>Switzerland</b> Geneva	Energetic optimization of the flue gas scrubbers of 3 municipal waste incineration lines. Electrical economy: 1'900 MWh/year.	Department of Interior, Agriculture and Environment (DIAE) - State of Geneva	Assistance in operation Technical expertise
<b>Russia</b> Moscow	Pre-investment study for the Pollution Abatement Program of NPAF.	Ministry for Environmental Protection and Natural Resources of the Russian Federation (NPAF)	Technical appraisal Technical expertise
<b>Russia</b> Moscow	Pre-investment study for the Pollution Abatement Program of NPAF.	Ministry for Environmental Protection and Natural Resources of the Russian Federation (NPAF)	Technical appraisal Technical expertise
<b>Russia</b> Moscow	Up scaling of high value metallic alloys production from batch process to continuous process Increase of the production from 250 t/y to 10'000 t/y	Ministry for Environmental Protection and Natural Resources of the Russian Federation (NPAF)	Feasibility study Technical expertise

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<b>Russia</b> Yarovoe, Altai Region	Regeneration of heavy metal spent catalyst out of the chemical industry 100 t/year of catalyst	Ministry for Environmental Protection and Natural Resources of the Russian Federation (NPAF)	Feasibility study Technical expertise
<b>Russia</b> Novotroïsk, Orenburg Region	Reduction of sulphur oxides emissions produced by iron ore sintering. Off gas: 1.5 million Nm <sup>3</sup> /h	Ministry for Environmental Protection and Natural Resources of the Russian Federation (NPAF)	Feasibility study Technical expertise
<b>Russia</b> Voskresensk, Moscow Region	Extraction of rare earths out of phosphogypsum waste resulting of fertilizers production Reuse of 135'000 t/y of phosphogypsum waste for production of 250 t/y of rare earth oxides.	Ministry for Environmental Protection and Natural Resources of the Russian Federation (NPAF)	Feasibility study Technical expertise
<b>Switzerland</b> Neuchatel	-	Canton de Neuchâtel, Département de la gestion du territoire, Service de la protection de l'environnement	Feasibility study Basic engineering Mechanical engineering Tender and evaluation
<b>Switzerland</b> Bernex	Adaptation of reception, transport and primary crushing of garden and park waste of the composting unit of the Châtillon site. Waste treatment: 17,000 t/y	Department of Interior, Agriculture and Environment (DIAE) - State of Geneva	Feasibility study
<b>Switzerland</b> Bernex	Technical expertise of the Châtillon biowaste treatment unit. Waste treatment capacity: 10'000 t/year.	Allianz Suisse	Technical expertise
<b>Switzerland</b> Cornaux	Expertise of the electrical power station with combined cycle turbine of Cornaux. Electricity production capacity: 37 MW.	Entreprises Electriques Fribourgeoises	Technical expertise
<b>Switzerland</b> Giubiasco	Electrical tenders document redaction for the Tessin Waste-to-Energy plant. Waste incineration: 150'000 t/y.	CSD Ingénieurs Conseils SA	Tender and evaluation
<b>Algeria</b> Algiers	Study for the municipal waste management of Alger Urban area: about 1'500'000 inhabitants (1990).	Direction of cooperation to Development and humanitarian Aid (DDA)	Technical appraisal Project management
<b>Switzerland</b> Geneva	Incineration capacity: 12'000 tons/year.	Department of Public Works (DTP) - State of Geneva	Project management Basic engineering Tender and evaluation Site supervision Start-up and commissioning

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<b>Switzerland</b> Bern	Study of the assessment criteria for the re-use of the waste incineration slag.	Swiss Agency for the Environment, Forests and Landscape (SAEFL)	Technical appraisal
<b>Switzerland</b> Monthey	Environmental impact study on the upgrading of the SATOM Waste-to-Energy plant. Waste incineration: 90'000 t/y.	SATOM	Technical expertise
<b>Nigeria</b> Lagos	Study of hazardous waste management in main cities of Nigeria.	Direction of cooperation to Development and humanitarian Aid (DDA)	Technical appraisal Project management
<b>Switzerland</b> Geneva	-	Department of Public Works (DTP) - State of Geneva	Technical expertise
<b>Switzerland</b> Bern	Use of household waste incineration slag in road construction: Study on conduit corrosion.	Swiss Federal Roads Authority (SFRA)	Technical appraisal
<b>Switzerland</b> Bern	Study of Switzerland's sewage sludge incineration options.	Swiss Agency for the Environment, Forests and Landscape (SAEFL)	Technical appraisal
<b>Switzerland</b> Lausanne	-	CSD Ingénieurs Conseils SA	Technical appraisal Feasibility study
<b>Switzerland</b> Bern	-	Swiss Agency for the Environment, Forests and Landscape (SAEFL)	Technical appraisal
<b>Switzerland</b> Neuchâtel	-	Service Cantonal de la Protection de l'Environnement (SCPE) - Canton de Neuchâtel	Technical appraisal
<b>Switzerland</b> Yverdon	Waste treatment capacity: 50'000 t/y.	CINOR Yverdon	Technical appraisal
<b>Switzerland</b> Penthaz	Waste incineration capacity: 70'000 t/y.	Association Intercommunale de Penthaz - Vaud	Technical appraisal
<b>Switzerland</b> Roche	-	Syndicat Intercommunal d'Épuration des Eaux et de traitement des Gadoues (SIEG)	Feasibility study
<b>Switzerland</b> Lausanne	Waste incineration capacity: 120'000 t/y.	City of Lausanne	Technical appraisal

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Switzerland Bern	Solidification of galvanic sludge mixed with washed ash from waste incineration plant.	Swiss Agency for the Environment, Forests and Landscape (SAEFL)	Technical expertise
Switzerland Roche	-	Syndicat Intercommunal d'Épuration des Eaux et de traitement des Gadoues (SIEG)	Technical appraisal
Switzerland Bern	-	Swiss Agency for the Environment, Forests and Landscape (SAEFL)	Technical appraisal
Switzerland Roche	Mechanical sludge dehydration and thermal drying plant. Evaporation 2.5 t H <sub>2</sub> O/h, namely a capacity of 1.1 tDS sludge/h.	Syndicat Intercommunal d'Épuration des Eaux et de traitement des Gadoues (SIEG)	Market survey Project management Basic engineering Tender and evaluation Site supervision Start-up and commissioning Technical expertise
Switzerland Geneva	Waste incineration capacity: 300'000 tons/year.	Department of Public Works (DTP) - State of Geneva	Technical appraisal
Switzerland Lausanne	-	City of Lausanne	Technical appraisal
Switzerland Geneva	-	Department of Public Works (DTP) - State of Geneva	Feasibility study Technical expertise
Switzerland Geneva	Pre-incineration shredding of bulky waste at Cheneviers Waste-to-Energy plant. Waste shredding: 25 t/h.	Department of Public Works (DTP) - State of Geneva	Project management Basic engineering Mechanical engineering Tender and evaluation Site supervision Start-up and commissioning
Switzerland Geneva	Pre-incineration shredding of confidential waste at Cheneviers Waste-to-Energy plant. Waste shredding: 2.5 to 4 t/h.	Department of Public Works (DTP) - State of Geneva	Project management Basic engineering Mechanical engineering Tender and evaluation Site supervision Start-up and commissioning
Switzerland Geneva	Expansion and upgrading of Cheneviers Waste-to-Energy plant. Waste incineration: 300'000 tons/year.	Department of Public Works (DTP) - State of Geneva	Project management Basic engineering Civil engineering Mechanical engineering Tender and evaluation Site supervision Start-up and commissioning
Switzerland Geneva	Slag treatment of Cheneviers Waste-to-Energy plant. Slag treatment: 90'000 t/y.	Department of Public Works (DTP) - State of Geneva	Project management Basic engineering Civil engineering Mechanical engineering Tender and evaluation Site supervision Start-up and commissioning

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<b>Saudi Arabia</b> Khursaniyah	52 km of 16" gas pipeline for a cement plant. Pipeline length: 52 kilometers.	Saudi Kuwaiti Cement Manufacturing Company (SKC)	Project management Basic engineering Civil engineering Mechanical engineering Tender and evaluation Site supervision
<b>Switzerland</b> Geneva	Expertise of hazardous waste incineration equipment of Cheneviers plant. Incineration capacity: 12'000 tons/year.	Department of Public Works (DTP) - State of Geneva	Technical expertise
<b>Haiti</b> Fond-Mombin	Steam power station for the Fond-Monbin cement plant. Capacity: 2'000/9'750 kW.	Le Ciment d'Haiti	Feasibility study Project management Basic engineering Mechanical engineering Tender and evaluation Site supervision Start-up and commissioning
<b>France</b> Bellegarde-sur-Valserine	Modification of the slag treatment of the SIDEFAGE waste-to-energy plant. Waste incineration: 120'000 t/y	Syndicat mixte de Gestion des Déchets du Faucigny Genevois (SIDEFAGE)	Project management Basic engineering Civil engineering Mechanical engineering Electrical engineering Tender and evaluation Site supervision Start-up and commissioning
<b>France</b> Bellegarde-sur-Valserine	Shredding capacity: 15'000 t/y.	Syndicat mixte de Gestion des Déchets du Faucigny Genevois (SIDEFAGE)	Project management Basic engineering Tender and evaluation Site supervision Start-up and commissioning